

UNCLASSIFIED

EXHIBIT R-2, FY 2000 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1999

BUDGET ACTIVITY: 05

PROGRAM ELEMENT: 0604261N

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
H0480 ASW SENSORS & PROCESSING *	11,958	29,364	25,953	20,031	24,135	21,028	17,550	23,434	CONT	CONT
H2000 AIR DEPLOYED ACTIVE RECEIVER (ADAR)	5,694	1,003	0	0	0	0	0	0	0	97,184
TOTAL	17,652	30,367	25,953	20,031	24,135	21,028	17,550	23,434	CONT	CONT

* Note: FY 1998 budget includes \$2,000 thousand Congressional add for development of alternative shallow water sound sources. FY 1999 budget includes \$1,000 thousand Congressional add for advanced active processing prototype development. These funds will be executed under project H2420 (Advanced Ranging Source).

Quantity of RDT&E Articles

H0480		200 Qualification Units (Q/U) AEER	900 AEER
	1 GASS	2 GASS	1 GASS
H2000 (N/A)			

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) (H0480) – This project provides improved air Anti-Submarine Warfare (ASW) mission effectiveness through engineering development of hardware and software associated with acoustic systems, sensors, processing, post-processing, data recording and displays for air ASW platforms. Key objectives: improved detection, classification, localization and tracking; and increased capacity and flexibility to handle multi-sensor data. Programs being funded during the period identified are the Generic Acoustic Stimulation System (GASS) which is an ocean, sensor and target-modeling system that will add shallow water and range dependent capabilities to all ASW trainers and the Advanced Extended Echo Ranging (AEER) system to provide bistatic acoustic source and signal processing for harsh water environments in the P-3 Update III. In FY 2000, procure design qualification units for non-coherent source technology acceleration and initial GASS Engineering Development Model (EDM). Procure additional GASS EDMs in FY 2000. Procure AEER coherent source EDMs in FY 2004. A future program planned for this project is the Shallow Water ASW Localization and Attack System (SWALAS) to provide improved localization and attack in regional conflict environments.

(U) (H2000) – The Air Deployed Active Receiver (ADAR) sonobuoy is an expendable air-launched acoustic receiver utilized by ASW aircraft. The ADAR sonobuoy functions as the acoustic receiver for the Improved Extended Echo Ranging (IEER) system. IEER is a mono/multistatic acoustic sensor system that utilizes an ASW aircraft, supporting acoustic source, and acoustic receiver in a coordinated ASW search and surveillance mission against conventionally powered submarines operating in shallow water environments as well as all submarines operating in deep water. The ADAR Sonobuoy will also be capable of functioning in a passive mode to detect high speed targets.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under ENGINEERING & MANUFACTURING DEVELOPMENT because it encompasses engineering and manufacturing development of new end-items prior to production approval decision.

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EXHIBIT R-2a, FY 2000 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

DATE: February 1999

BUDGET ACTIVITY: 05

PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H0480

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: ASW Sensors & Processing

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
H0480 ASW Sensors & Processing *	11,958	29,364	25,953	20,031	24,135	21,028	17,550	23,434	CONT	CONT
TOTAL	11,958	29,364	25,953	20,031	24,135	21,028	17,550	23,434	CONT	CONT

* Note: FY 1998 budget includes \$2,000 thousand Congressional add for development of alternative shallow water sound sources. FY 1999 budget includes \$1,000 thousand Congressional add for advanced active processing prototype development. These funds will be executed under project H2420 (Advanced Ranging Source).

Quantity of RDT&E Articles

1 GASS 200 Qualification Units (Q/U) AEER 900 AEER
2 GASS 1 GASS

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project provides improved air Anti-Submarine Warfare (ASW) mission effectiveness through engineering development of hardware and software associated with acoustic systems, sensors, processing, post-processing, data recording and displays for air ASW platforms. Key objectives: improved detection, classification, localization and tracking; and increased capacity and flexibility to handle multi-sensor data. Programs being funded during the period identified are the Generic Acoustic Stimulation System (GASS) which is an ocean, sensor and target modeling system that will add shallow water and range dependent capabilities to all ASW trainers and the Advanced Extended Echo Ranging (AEER) system to provide an improved bistatic acoustic source and signal processing for harsh water environments in the P-3 Update III. In FY 2000, procure design qualification units for non-coherent source technology acceleration and initial GASS Engineering Development Model (EDM). Procure additional GASS EDMs in FY 2000. Procure AEER coherent source EDMs in FY 2004. A future program planned for this project is the Shallow Water ASW Localization and Attack System (SWALAS) to provide improved localization and attack in regional conflict environments.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 1998 ACCOMPLISHMENTS:

(U) GASS

- (U) (\$4,208) EMD contractor completed GASS system design review and software system architecture.
- (U) (\$ 250) Continued GFE environmental software development to reduce EMD risk.

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PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H0480

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: ASW Sensors & Processing

- (U) (\$ 768) Provided engineering oversight of EMD contractor.
- (U) (\$ 543) Provided other engineering support and contractor support services.
- (U) AEER
 - (U) (\$ 100) Completed the AEER Analysis of Alternatives (AOA).
 - (U) (\$2,565) Initiated implementation of AEER baseline software in P-3C Update III.
 - (U) (\$1,422) Initiated systems requirements for implementation of AEER in P-3C Update III.
 - (U) (\$ 521) Provided other engineering support and contract support services.
 - (U) (\$1,581) Initiated performance specification to support acceleration of non-coherent source technology enhancements.

2. FY 1999 PLAN:

(U) GASS

- (U) (\$10,160) EMD contractor complete GASS system Preliminary Design Review (PDR) and the design for the major Computer Software Configuration Items (CSCI); initiate procurement of pre-production hardware.
- (U) (\$ 310) Continue GFE environmental software improvements.
- (U) (\$ 707) Provide engineering oversight of EMD contractor.
- (U) (\$ 1,252) Provide other engineering support and contractor support services.
- (U) (\$ 503) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

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PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H0480

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: ASW Sensors & Processing

(U) AEER

- (U) (\$2,418) Continue AEER coherent source system design trade-offs and system analysis.
- (U) (\$5,389) Initiate/complete Critical Design Review (CDR) and continue software code and test for AEER baseline in the P-3C Update III.
- (U) (\$5,357) Complete PDR and award Engineering Change Proposal (ECP) qualification contract for fabrication and test of design qualification of units for acceleration of non-coherent source technology enhancements.
- (U) (\$2,294) Provide other engineering support and contractor support services.
- (U) (\$ 974) Procure Commercial Off The Shelf (COTS) hardware and software development tools and develop active acoustic processing prototype.

3. FY 2000 PLAN:

(U) GASS

- (U) (\$15,200) EMD contractor complete GASS system CDR and initiate code and test for the major CSCIs, complete PDR for GASS Interface Module (GIM) #1 & #2, CDR for GIM #1 and initiate GIM code and test, initiate/complete procurement of pre-production hardware, and initiate/complete fabrication of GASS units #1 and #2.
- (U) (\$ 335) Continue GFE environmental software improvements.
- (U) (\$ 710) Provide engineering oversight to EMD contractor.
- (U) (\$ 1,883) Provide other engineering support and contract support services.

(U) AEER

- (U) (\$1,787) Complete software code and test for AEER baseline in the P-3C Update III.
- (U) (\$4,250) Complete CDR and fabrication and test of ECP qualification units for non-coherent source technology enhancements.
- (U) (\$1,788) Provide other engineering support and contract support services.

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PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H0480

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: ASW Sensors & Processing

(U) B. PROGRAM CHANGE SUMMARY

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) FY 1999 President's Budget:	12,450	28,630	37,358
(U) Appropriated Value:	12,869	28,630	
(U) Adjustments from 1999 Pres Budget:	-492	+734	-11,405
(U) FY 2000/2001 Pres Budget Submit:	11,958	29,364	25,953

CHANGE SUMMARY EXPLANATION:

(U) Funding: FY 1998 net decrease of -\$492 thousand reflects -\$223 thousand for an SBIR reduction and Below Threshold Reprogrammings (BTR's) of -\$269 thousand. FY 1999 net increase of +\$734 thousand includes a +\$1,000 thousand Congressional plus-up, -\$68 thousand for revised economic assumptions, -\$24 thousand for minor program adjustments, and a -\$174 thousand Contract Advisory adjustment. FY2000 net decrease of -\$11,405 thousand reflects -\$68 thousand for minor program adjustments, -\$11,000 thousand for a program restructuring adjustment which delays AEER MS II by one year, a Navy Working Capital Fund (NWCF) rate adjustment of +\$24 thousand, +\$21 thousand for Civilian pay rate adjustments (PBD 606), -\$375 thousand for Non Pay Inflation (PBD 604), and -\$7 thousand for NWCF rate adjustments (PBD 426).

(U) Schedule: AEER Baseline CDR delayed from 1Q/99 to 3Q/99 to allow for further software maturity. AEER MS-II delayed from 4Q/00 to 4Q/01 and EMD contract award from 1Q/01 to 1Q/02 due to program funding restructure in FY 00/01. AEER SDR, PDR, CDR, TECHEVAL and OPEVAL have subsequently been delayed from 3Q/01 to 3Q/02 (SDR), 3Q/03 to 3Q/04 (PDR), 3Q/04 to 3Q/05 (CDR), 1Q/05-2Q/05 to 1Q/06-2Q/06 (TECHEVAL) and 3Q/05-4Q/05 to 3Q/06-4Q/06 (OPEVAL). The start of SWALAS EMD is delayed to beyond the FYDP due to funding restructure. Also, 1Q GASS PDR #1 is now correctly displayed in FY 2000 vice FY 1999 as shown in a previous submission.

(U) Technical: Not applicable.

(U) C. OTHER PROGRAM FUNDING SUMMARY

<u>Appn</u>	<u>FY 1998</u> <u>Budget</u>	<u>FY 1999</u> <u>Budget</u>	<u>FY 2000</u> <u>Estimate</u>	<u>FY 2001</u> <u>Estimate</u>	<u>FY 2002</u> <u>Estimate</u>	<u>FY 2003</u> <u>Estimate</u>	<u>FY 2004</u> <u>Estimate</u>	<u>FY 2005</u> <u>Estimate</u>	<u>To</u> <u>Complete</u>
(U) APN/P-3 Mod/(053800)	0	0	0	400	2,800	6,500	10,800	11,200	CONT

(U) Related RDT&E

(U) P.E. 0603254N (ASW Systems Development)

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PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H0480

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: ASW Sensors & Processing

(U) D. ACQUISITION STRATEGY: The GASS EMD contract was competitively awarded. Program development is based on a COTS open architecture hardware and software approach. AEER EMD will use a competitive contracting strategy. Supporting efforts utilize Qualified Product List (QPL) manufacturers and existing contracting vehicles where appropriate for development efficiency.

(U) E. SCHEDULE PROFILE

FY 1998

FY 1999

FY 2000

TO COMPLETE

(U) Program Milestones

4Q/01 AEER MS-II
3Q/02 GASS MS-III

(U) Engineering Milestones

3Q AEER
BASELINE CDR
1Q Q/U PDR

1Q Q/U CDR
1Q GASS PDR #1
3Q GASS CDR #1
4Q GASS PDR #2

2Q/01 GASS PDR#3/CDR#2
3Q/01 GASS PDR#4
4Q/01 GASS CDR#3
3Q/02 AEER SDR
1Q/02 GASS CDR #4
3Q/04 AEER PDR
3Q/05 AEER CDR

(U) T&E Milestones

3Q/01 Q/U DT
4Q/01 Q/U OT
1Q/02-2Q/03 GASS TTPRR
1Q/06-2Q/06 AEER TECHEVAL
3Q/06-4Q/06 AEER OPEVAL

(U) Contract Milestones

2Q Qual Units
Contract Award

1Q/02 AEER EMD
Contract Award

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EXHIBIT R-3, FY 2000 RDT&E,N COST ANALYSIS

DATE: February 1999

BUDGET ACTIVITY: 05

PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H0480
PROJECT TITLE: ASW SENSORS & PROC

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Hardware Development	TBD	TBD	0	3,000	3/99	3,000	3/00	0	TBD	TBD
	C/CPFF	Misc Contracts	1,000	250	3/99	0		0	1,250	1,250
Software Development	C/CPIF	Northrop Grumman, NY	5,208	10,160	12/98	15,200	12/99	15,592	46,160	46,160
	C/CPFF	Misc GASS Con	11,417	435	11/98	460	11/99	507	12,819	12,819
	C/CPFF	Misc/P-3 Baseline Cont's	2,000	3,000	11/98	800	11/99	0	5,800	5,800
	WX	Misc In-House	0	724	3/99	0		0	724	724
Gov't & Engineering Support	WX	Misc In-House	18,378	7,223	10/98	2,515	10/99	Cont.	Cont.	Cont.
Award Fees			0	0		0		0	0	0
Subtotal Project Development			38,003	24,792		21,975		Cont,	Cont.	Cont.
Remarks										
Program Management Support	WX	Misc In-House	2,135	2,344	10/98	2,632	10/99	Cont.	Cont.	Cont.
Subtotal Support			2,135	2,344		2,632		Cont.	Cont.	Cont.
Remarks										

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EXHIBIT R-3, FY 2000 RDT&E,N COST ANALYSIS

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BUDGET ACTIVITY: 05

PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H0480

PROJECT TITLE: ASW SENSORS & PROC

Cost Categories:	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Development Test	WX	Misc In-House	0	1,137	10/98	307	10/99	Cont.	Cont.	Cont.
Subtotal Test & Evaluation			0	1,137		307		Cont.	Cont.	Cont.
Remarks										
Contractor Support Services	C/CPFF	Misc/Contracts	3,986	588	10/98	1,039	10/99	Cont.	Cont.	Cont.
Subtotal Management			3,986	588		1,039		Cont.	Cont.	Cont.
SBIR Assessment				503						
Remarks										
Total Cost			44,124	29,364		25,953		Cont.	Cont.	Cont.

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DATE: February 1999

BUDGET ACTIVITY: 05

PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H2000

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: Air Deployed Active Receiver

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
H2000 Air Deployed Active Receiver (ADAR)	5,694	1,003	0	0	0	0	0	0	0	97,184
TOTAL	5,694	1,003	0	0	0	0	0	0	0	97,184

Quantity of RDT&E Articles 0 0

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Air Deployed Active Receiver (ADAR) sonobuoy is an expendable air-launched acoustic receiver utilized by ASW aircraft. The ADAR sonobuoy functions as the acoustic receiver for the Improved Extended Echo Ranging (IEER) system. IEER is a mono/multistatic acoustic sensor system that utilizes an ASW aircraft, supporting acoustic source, and acoustic receiver in a coordinated ASW search and surveillance mission against conventionally powered submarines operating in shallow water environments as well as all submarines operating in deep water. The ADAR Sonobuoy will also be capable of functioning in a passive mode to detect high speed targets.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 1998 ACCOMPLISHMENTS:

- (U) (\$ 654) Provided EMD contractor corrective action for Lot Acceptance Test deficiencies.
- (U) (\$1,640) Provided engineering support for completion of TECHEVAL
- (U) (\$1,514) Completed TECHEVAL.

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PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H2000

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: Air Deployed Active Receiver

- (U) (\$ 740) Completed OPEVAL.
- (U) (\$ 347) Initiated Generic Acoustic Stimulator System (GASS) prototype integration into S-3B Weapon System Trainer (WST) for Fleet Introduction Team (FIT) training.
- (U) (\$ 153) Completed FIT training materials.
- (U) (\$ 646) Provided other engineering support and contractor support services.

2. FY 1999 PLAN:

- (U) (\$ 713) Provide engineering support and analysis for Milestone III decision process.
- (U) (\$ 285) Provide other engineering support and contractor support services.
- (U) (\$ 5) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

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PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H2000

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: Air Deployed Active Receiver

(U) B. PROGRAM CHANGE SUMMARY

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) FY 1999 President's Budget:	5,865	1,007	
(U) Appropriated Value:	5,865	1,007	
(U) Adjustments from 1999 Pres Budget:	-171	-4	
(U) FY 2000/2001 Pres Budget Submit:	5,694	1,003	

CHANGE SUMMARY EXPLANATION:

(U) Funding: FY 1998 net decrease of -\$171 thousand reflects -\$96 thousand SBIR reduction and -\$75 thousand for program adjustments. FY 1999 net decrease of -\$4 thousand reflects -\$2 thousand for Revised Economic Assumptions, and -\$2 thousand for a minor program adjustment.

(U) Schedule: TECHEVAL completion delayed from 3Q/98 to 4Q/98 to allow adequate software maturity. OPEVAL and Milestone III completion delayed (4Q/98 to 1Q/99) and (1Q/99 to 2Q/99) respectively due to TECHEVAL slip.

(U) Technical: Not applicable.

(U) C. OTHER PROGRAM FUNDING SUMMARY

<u>Appn</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>
(U) OPN (SSQ-101) (403600)	0	16,482	12,773	10,803	13,871	11,093	13,788	14,570	CONT

(U) Related RDT&E

(U) P.E. 0603254N (ASW Systems Development)

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PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H2000

PROGRAM ELEMENT TITLE: Acoustic Search Sensors

PROJECT TITLE: Air Deployed Active Receiver

(U) D. ACQUISITION STRATEGY: ADAR EMD contract was competitively awarded to include first year production option.

(U) E. SCHEDULE PROFILE

FY 1998

FY 1999

FY 2000

TO COMPLETE

(U) Program Milestones

2Q MS-III

(U) Engineering Milestones

(U) T&E Milestones

1Q-4Q TECHEVAL

1Q-1Q OPEVAL

(U) Contract Milestones

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EXHIBIT R-3, FY 2000 RDT&E,N COST ANALYSIS

DATE: February 1999

BUDGET ACTIVITY: 05

PROGRAM ELEMENT: 0604261N

PROJECT NUMBER: H2000

PROJECT TITLE: AIR DEPLOYED ACTIVE REC

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Hardware Development	C/CPFF	Erapsco, Ft Wayne, IN	25,630	0		0		0	25,630	25,630
Gov't Engineering Support	WX	NAWCAD, PAX	46,090	713	11/98	0		0	46,803	46,803
	WX	Misc In-House	9,610	0		0		0	9,610	9,610
Trainer Integration	C/CPFF	Misc Contracts	347	0		0		0	347	347
Award Fees			0	0		0		0	0	0
Subtotal Project Development			81,677	713		0		0	82,390	82,390
Remarks										
Program Management	WX	Misc In-House	4,657	210	11/98	0		0	4,867	4,867
Subtotal Support			4,657	210		0		0	4,867	4,867
Remarks										

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PROGRAM ELEMENT: 0604261N

H2000

Air Deployed Active Receiver

Cost Categories:	Contract Method & Type	Performing Activity & Location	Total Prior Yrs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Development Test	WX	Misc In-House	4,378	0		0		0	4,378	4,378
Gov't Furnished Property	WX	NAWCAD WAR	2,296	0		0		0	2,296	2,296
Operational Test	WX	VX-1 PAX	740	0		0		0	740	740
Subtotal Test & Evaluation			7,414	0		0		0	7,414	7,414
Remarks										
Contractor Support Services	C/CPFF	Misc Contracts	2,433	75	11/98	0		0	2,508	2,508
Subtotal Management			2,433	75		0		0	2,508	2,508
SBIR Assessment				5					5	5
Remarks										
Total Cost			96,181	1,003		0		0	97,184	97,184

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